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Appl. No. : 10/812,361

Applicant : Giovanni MIGLIACCIO et al

Filed : March 30, 2004

TC/A.U. : 1636

Examiner

Docket No. : 1570-543 Customer No. : 06449 Confirmation No. : 4123

INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant submits herewith information that the Office may wish to consider in examination of the subject application. Materials submitted for consideration are listed on the attached form PTO-1449.

Respectfully submitted,

By _

G. F. Sortunel

G. Franklin Rothwell Attorney for Applicants Registration No. 18,125

ROTHWELL, FIGG, ERNST & MANBECK, p.c.

Suite 800, 1425 K Street, N.W.

Washington, D.C. 20005 Telephone: (202)783-6040

Enclosure(s): (46) cited references

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NON PATENT LITERATURE DOCUMENTS									
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published							
	1	ALFANI, E., et al., "Characterization of T cell receptor repertoire of neonatal T cells by RT-PCR and single strand conformation polymorphism analysis," Bone Marrow Transplantation, 2000, 83-89, 26							
	2		AZUMA, H. et al., "Functional evaluation of ex vivo expanded cord blood lymphocytes: Possible use for adoptive cellular immunotherapy," Experimental Hematology, 2002, 346-351, 30						
	3	BONINI, C. et al., "HSV-TK gene transfer into donor lymphocytes for control of allogeneic graft-versus-leukemia," Science, 1997, 1719-1724, 276							
	4	BRANDT, J., et al., "Role of c-kit ligand in the expansion of human hematopoietic progenitor cells, Blood, 1992, 634-641, 79(3)							
	.5	CARLENS, S. et al., "Ex vivo T lymphocyte expansion for retroviral transduction: Influence of serum-free media on variations in cell expansion rate and lymphocyte subset distribution," Experimental Hematology, 2000, 1137-1146, 28							
	6	CHERVENAK, R., et al., "In vitro growth of bone marrow resident T cell precursors supported by mast cell growth factor and IL-3," J. Immunol. 1992, 2851-2856, 149							
:	7	CHOI, Y., et al., "Interaction of staphylococcus aureus toxin "superantigens" with human T-cells," Proc. Natl. Acad. Sci. USA, 1989, 8941-8945, 86							
	8	DAZZI, F. et al., "Donor lymphocyte transfusion for relapse of chronic myeloid leukemia after allogeneic stem cell transplant: Where we now stand," Experimental Hematology, 1999, 1477-1486, 27 FORTE, L., et al., "Effects of cell banking manipulations on ex vivo amplification of umbilical cord blood," Ann. Ist. Super Sanita, 2000, 333-342, 36(3) FREEDMAN, A., et al., "Generation of human lymphocytes from bone marrow CD34+ cells in vitro," Nat. Med., 1996, 46-51, 2(1), (4bstract on lymphocytes)							
	9								
	10								
	11	GARCIA-OJEDA, M., et al., "An alternate pathway for T cell development supported by the bone marrow microenvironment: Recapitulation of thymic maturation," J. Exp. Med., 1998, 1813-1823, 187(11)							
	12	GLUCKMAN, E. "Current status of umbilical cord blood hematopoietic stem cell transplantation," Experimental Hematol, 2000, 1197-1205, 28(11)							
Examiner Signature				Date Considered					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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GLUCKMAN, E., et al., "Outcome of cord-blood transplantation from related and unred donors," New England Journal of Medicine, 1997, 373-381, 337(6)									
	14 GROSS, S. et al., "Ex vivo expansion of CD3+ cells from cord blood for use as done lymphocyte infusions," Experimental Hematology, 2000, 89 (abstract 185), 28 (supp								
	HARRIS, D. et al,. "Phenotypic and functional immaturity of human umbilical cord lymphocytes," Proc. Natl. Acad. Sci. USA, 1992, 10006-10010, 89								
	HASSAN, J. et al., "Cord blood CD4+CD45RA+ T cells achieve a lower magnitude activation when compared with their adult counterparts," Immunology, 1997, 397								
	17	HIRAYAMA F., et al., "Differentiation in culture of murine primitive lymphohematopoietic progenitors toward T-cell lineage," Blood, 1999, 4187-4195, 93(12) HOFMEISTER, R., et al., "Interleukin-7: Physiology roles and mechanisms of action," Cytokine & Growth Factor Reviews, 1999, 41-60, 10							
	18								
	19 KOLB, H. et al., "Donor leukocyte transfusion for treatment of recurrent chron myelogeneous leukemia in marrow transplant patients," Blood, 1990, 2462-24								
	20	KONDO, M., et al., "Sharing of the interleukin-2 (IL2) receptor γ chain between receptor for IL-2 and IL-4," Science, 1874-1877, 262							
	21	KUHN, R., et al., "Generation and analysis of interleukin-4 deficient mice," Science, 1991, 707-710, 254							
	22	CD57/CD11C, CD38/CD11b, dentify acute/early and chronic/late , 181-190, 28(2)							
	23	MANIATIS, T., et al., "Molecular Cloning: A Laboratory Manual, 2 nd ed., 1989, pgs. 5.52-5.55, 6.39-6.43, 7.23-7.25, 9.52-9.55, 11.31-11.32, Cold Springs Harbor Lab. Press, NY							
	24	MIGLIACCIO serum-depri	AIGLIACCIO, G., et al., "Expansion of human neonatal progenitor cells in vitro under erum-deprived conditions," Blood Cells, 1994, 424-429, 20(2-3)						
	25	MIGLIACCIO, G., et al., "In vitro differentiation of human granulocyte/macrophage and erythroid progenitors: Comparative analysis of the influence of recombinant human erythropoietin, G-CSF, GM-CSF and IL-3 in serum-supplemented and serum-deprived cultures," Blood, 1988, 248-256, 72(1)							
Examiner Signature					Date Considered e with MPEP 609. Draw line through citation				

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	26	CD34	MIGLIACCIO, G., et al., "Long-term generation of colony-forming cells in liquid culture of CD34+ cord blood cells in the presence of recombinant human stem cell factor," Blood, 1992, 2620-2627, 79(10)						
	27		NOGUCHI,M., et al., Interleukin-2, receptor γ chain: A functional component of the interleukin-7 receptor, Science, 1993, 1877,-1880, 262						
	28	PAR	PARKIN, J., et al., An overview of the immune system," The Lancet, 2001, 1777-1789, 357						
	29		PESCHON, J., et al., "Early lymphocyte expansion is severely impaired in interleukin 7 receptor-deficient mice," Journal of Experimental Medicine, 1994, 1955-1960, 180						
	30		PLUM, J., et al., "Interleukin-7 is a critical growth factor in early human T-cell development," Blood, 4239-4245, 88(11)						
	31		RISDON, G. et al., "Alloantigen priming induces a state of unresponsiveness in human umbilical cord blood T cells," Proc. Natl. Acad. Sci. USA, 1995, 2413-2417, 92						
	32		RONCAROLO, M., et al., "Immune responses by cord blood cells. Blood Cells, 1994, 573-586, 20						
	33	cord I	ROSSMANITH, T., et al. "Interleukin 3 improves the ex vivo expansion of primitive human cord blood progenitor cells and maintains the engraftment potential of SCID repopulating cells," Stem Cells, 2001, 313-320, 19(4)						
	34		RUBENSTEIN, P. et al., "Outcomes among 562 recipients of placental-blood transplants from unrelated donors," The New England Journal of Medicine, 1998,1565-1577, 339(22)						
	35		RUSSEL, S., et al., "Interleukin-2 receptor gamma chain: A Functional component of the interleukin-4 receptor," Science, 1993, 1880-1883, 262						
	36		SADLACK, B., et al., "Development and proliferation in lymphocytes in mice deficient for both interleukins-2 and-4," Eur. Journal of Immunology, 1994, 281-284, 24						
	37		SANCHEZ, M., et al., "Thymus-independent T-cell differentiation in vitro," Molecular Biology of Hematopoiesis 6, 1999, 51-57						
	38	SKEA, D. et al., "Large ex vivo expansion of human umbilical cord blood CD4+ and CD8+ T cells," Journal of Hematotherapy, 1999, 129-139, 8							
	39		SPELLBERG, B., et al., "Type 1/Type 2 immunity in infectious diseases," Clin. Infect. Dis., 2001, 76-102, 32(1)						
Examiner Signature						Date Considered Out the MPER 609 Draw line through citation if r			

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	40			SWAIN, S., et al., "Helper T-cell subsets: Phenotype, function and the rols of lymphokines in their development, " Immunol. Rev., 1991, 115-144, 123						
	41		TAGOH, H., et al., Induction of recombination activating gene expression in a human lymphoid progenitor cell line: Requirement of two separate signals from stromal cells and cytokines," Blood, 1996, 4463-4473, 88							
· ·	42		TAKESHITA, T., et al., "Cloning of the γ chain of the human IL-2 receptor," Science, 1992, 379-382, 257							
_	43		VON FREEDEN-JEFFRY, U., et al., "Lymphopenia in interleukin (IL)-7 gene-deleted mice identifies IL-7 as a non-redundant cytokine," J. Exp. Med.,1995, 1519-1526, 181(4)							
	44		WILES, M., et al., "Interleukin-7 expression during mouse thymus development, Eur. J. Immunol, 1992, 1037-1042, 22							
	45		YAMAMOTO, K., et al., "Establishment and application of a novel T cell clonality analysis using single-strand conformation polymorphism of T cell receptor messenger signals," Human Immunology, 1996, 23-31, 48							
	46		YEOMAN, H., et al., "Development of CD4 and CD8 single positive T cells in human thymorgan culture: IL-7 promotes human T cell production by supporting immature T cells," 19 241-263, 20							
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